

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001278**Date Inspected:** 21-Aug-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Office, Lift 3 East, Lift 4 West, Lift 3 West, T**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Lift 3 East

ZPMC requested "Final Inspection" for applied coatings on internal and external surfaces. ABF cancelled this inspection as NDT is still pending for welds and external is incomplete.

Lift 4 West

Cross beam terminus area repairs were performed via re-abrasive blasting to base metal and an SSPC SP-10 condition and re-application of Interzinc 22 to affected areas. Profile amplitude was 81um. Repairs were resultant from trial assembly operations and fit up.

Lift 3 East

ZPMC Notice of Inspection to apply Full coat Interfine 979 to external surfaces. Caltrans QA checked internal; surfaces of upper floor beams at panel point 22&23 and surfaces require re-abrasive blasting and repairs from welding damages, NDT is incomplete on the internal surfaces of welds along Floor beams. ZPMC stated they planned to apply full topcoat in two separate applications, surfaces were cleaned and Topcoat was applied to external areas.

Lift 3 West

Repairs were made to the Cross Beam terminus area via re-abrasive blasting to base metal and an SSPC SP-10 condition and re-application of Interzinc 22. Repair work is a result of trial assembly operations and fit up damage repairs. Profile amplitude was 81-82um.

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## SOURCE INSPECTION REPORT

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### Tower Splice Plates

Base metal surfaces of plates coded: SA101 N&S, SA102N&S, SA170N&S, SA235N&S, SA98N&S were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting operations.

### Office

Review sort and organize project documentation. Task Leader Mahlon Lindenmuth performed a cursory check of files and project documentation and made recommendations relative to labeling of project binders and nomenclature.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representatives were available for inspections and consultation.

### Summary of Conversations:

Caltrans QA Lumley inquired to ABF Bill Oak QA as to why ZPMC wished to apply Interfine 979 Topcoat in two applications on external surfaces of Lift 3 East. Mr. Oak had no answer and could not explain ZPMC work processes as ZPMC had previously applied Interfine 979 "mist" coat in paint shop.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James
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Quality Assurance Inspector
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<b>Reviewed By:</b>	Carreon,Albert
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QA Reviewer
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